 Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-042001	Application No. 10/723,322
	<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Douglas P. Seams	
			Filing Date November 26, 2003	
		Group Art Unit 3672		

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1						
	A2						
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						
	A11						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>W</i>	B1	WO 01/51760 A2	07/19/2001	WIPO	<u>        </u>	<u>        </u>	N/A	
<i>W</i>	B2	WO 01/51760 A3	07/19/2001	WIPO	<u>        </u>	<u>        </u>	N/A	
	B3							
	B4							
	B5							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
<i>W</i>	C1	William P. Diamond, "Methane Control for Underground Coal Mines," IC-9395, Bureau of Mines Information Circular, United States Department of the Interior, 1994 (51 pages)
	C2	
	C3	
	C4	


Examiner Signature <i>William P. Diamond</i>	Date Considered 4/15/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) MAR 30 2005 U.S. DEPT. OF COMMERCE PATENT & TRADEMARK OFFICE 1.98(b)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-042001	Application No. 10/723,322
	<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)			
	Applicant Douglas P. Seams		Filing Date November 26, 2003	Group Art Unit 3672

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
mm	A1	4,651,836	03/24/1987	Richards et al.			
mm	A2	4,929,348	05/29/1990	Rice et al.			
mm	A3	5,099,921	03/31/1992	Puri et al.			
mm	A4	5,562,159	10/08/1996	Smith et al.			
mm	A5	6,646,441	11/11/2003	Thompson et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1							
	B2							
	B3							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
mm	C1	Santos, Helio, SPE, Impact Engineering Solutions and Jesus Oleya, Ecopetrol/ICP, "No-Damage Drilling: How to Achieve this Challenging Goal?," SPE 77189, Copyright 2002, presented at the IADC/SPE Asia Pacific Drilling Technology, Jakarta, Indonesia, 09/09-11/2002, 10 pages
mm	C2	Santos, Helio, SPE, Impact Engineering Solutions, "Increasing Leakoff Pressure with New Class of Drilling Fluid," SPE 78243, Copyright 2002, presented at the SPE/ISRM Rock Mechanics Conference in Irving, Texas, 10/20-23/2002, 7 pages
mm	C3	Franck Labenski, Paul Reid, SPE, and Helio Santos, SPE, Impact Solutions Group, "Drilling Fluids Approaches for Control of Wellbore Instability in Fractured Formations," SPE/IADC 85304, Society of Petroleum Engineers, Copyright 2003, presented at the SPE/IADC Middle East Drilling Technology Conference & Exhibition in Abu Dhabi, UAE, 10/20-22/2003, 8 pages
mm	C4	P. Reid, SPE, and H. Santos, SPE, Impact Solutions Group, "Novel Drilling, Completion and Workover Fluids for Depleted Zones: Avoiding Losses, Formation Damage and Stuck Pipe," SPE/IADC 85326, Society of Petroleum Engineers, Copyright 2003, presented at the SPE/IADC Middle East Drilling Conference & Exhibition in Abu Dhabi, UAE, 10/20-22/2003, 9 pages
mm	C5	Craig C. White and Adrian P. Chesters, NAM; Catalin D. Ivan, Sven Maikranz and Rob Nouris, M-I L.L.C., "Aphron-based drilling fluid: Novel technology for drilling depleted formations," WORLD OIL, Drilling Report Special Focus, October 2003, 5 pages
mm	C6	Robert E. Snyder, "Drilling Advances," WORLD OIL, October 2003, 1 page

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<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Douglas P. Seams	
		Filing Date November 26, 2003	Group Art Unit 3672
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>mm</i>	C7	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (4 pages) and Written Opinion of the International Searching Authority (PCT Rule 43bis.1) (4 pages) re International Application No. PCT/US 2004/036920 mailed February 24, 2005
<i>mm</i>	C8	Molvar, Erik M., "Drilling Smarter: Using Directional Drilling to Reduce Oil and Gas Impacts in the Intermountain West," Prepared by Biodiversity Conservation Alliance, Report issued February 18, 2003, 34 pages
<i>mm</i>	C9	King, Robert F., "Drilling Sideways – A review of Horizontal Well Technology and Its Domestic Application," DOE/EIA-TR-0565, U.S. Department of Energy, April 1993, 30 pages
<i>mm</i>	C10	McLennan, John, et al., "Underbalanced Drilling Manual," Gas Research Institute, Chicago, Illinois, GRI Reference No. GRI-97/0236, copyright 1997, 502 pages
<i>mm</i>	C11	David C. Oyler and William P. Diamond, "Drilling a Horizontal Coalbed Methane Drainage System From a Directional Surface Borehole," PB82221516, National Technical Information Service, Bureau of Mines, Pittsburgh, PA, Pittsburgh Research Center, April 1982, 56 pages
<i>mm</i>	C12	K&M Technology Group – Case Studies, "Improving Your Drilling Performance," Website: <a href="http://www.kmtechnology.com/projects/case_studies.asp">http://www.kmtechnology.com/projects/case_studies.asp</a> , printed March 17, 2005, 4 pages
<i>mm</i>	C13	U.S. Environmental Protection Agency, "Directional Drilling Technology," prepared for the EPA by Advanced Resources International under Contract 68-W-00-094, Coalbed Methane Outreach Program (CMOP), Website: <a href="http://search.epa.gov/s97is.vts">http://search.epa.gov/s97is.vts</a> , printed 3/17/2005, 13 pages
<i>mm</i>	C14	Calendar of Events – Conferences, "Unconventional Gas: Key to Energy Supply," 6 <sup>th</sup> Annual Unconventional Gas Conference, Calgary, Alberta, Canada, Website: <a href="http://www.csug.ca/cal/cal0401a.html">http://www.csug.ca/cal/cal0401a.html</a> , November 17-19, 2004, 7 pages
<i>mm</i>	C15	Information regarding San Juan 32-5 Unit, Well No. 100, completed on or about September 1, 1989 (44 pages)
<i>mm</i>	C16	Information regarding Rosa Unit, Well No. 381, completed on or about December 1, 2002 (25 pages)
<i>mm</i>	C17	Information regarding Rosa Unit, Well No. 379, completed on or about September 1, 2002 (26 pages)
<i>mm</i>	C18	Information regarding Rosa Unit, Well No. 371, completed on or about September 1, 2002 (30 pages)
<i>mm</i>	C19	Information regarding Rosa Unit, Well No. 273A, completed on or about December 1, 2003 (19 pages)
<i>mm</i>	C20	Information regarding Vandewart B, Well No. 3S, completed on or about August 1, 2004 (22 pages)

Examiner Signature <i>William M.</i>	Date Considered <i>4/15/05</i>
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